Learning from Escaped Prescribed Fire Reviews

A Joint Fire Science Program Project (JFSP # 10-1-05-1)

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Today's Objective

Overview of methods, participants, results, interpretation, discussion.

- ➤ Project overview
 - -Objectives
 - Methods
 - -Participants
- Results focusing on data resulting in recommendations
 - illustrate key themes
- ➤ Concepts to help interpret and use results
- ➤ Discussion

Project Objectives

Investigate existing learning

Identify ways to improve organizational learning

<u>Methods</u>

Inter Agency Workshops

organized around concept of Dialogue

Held 5:

- Portland January
- Denver, Salt Lake City March
- Tucson April
- Florida July

2 day workshops

- < 25 people
- Range of responsibilities (ground WO)
- Range of agencies

Workshop Flow

- Day 1 Drilling down into learning
 - ✓ Personal stories of insight and action

- Day 2 -- Barriers/facilitators to learning
 - ✓ Processes, Products, Transfer methods

How do we define learning?

	Event	Review Process	Review Product	Transfer Activities
Individual				
Burn Team		ACTI	INSIGHT 'ah	
Review Team			ON new behal	vio _r
Peers/Units				•
Organization				

How do we set the tone for learning?

Dialogue

Monologue

Generative learning

Goal: Identify emerging possibilities

Tone: Present to self, other, deep connections

Serial monologue

Goal: Info exchange

Tone: Talking nice

Mutual learning

Goal: Understanding

Tone: Speaking to be understood Listening to understand

Multiple monologues

Goal: Persuasion

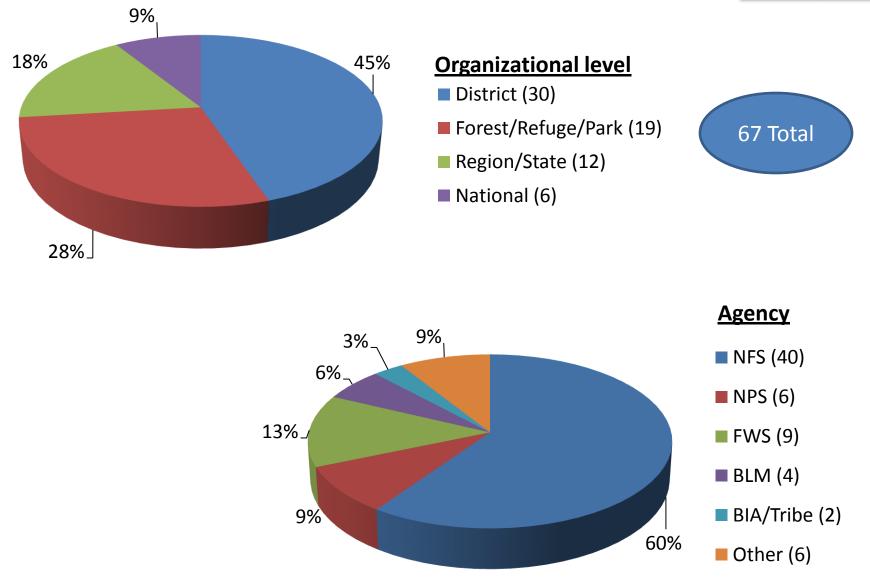
Tone: Speaking to persuade Listening to defend

Focus on group

Focus on individuals

Adapted from: ActionDesign, Dialogos, Scharmer

<u>Participants</u>



Other: TNC (2), FUTA (1), PFTC (1), LLC (1), AD (1)

Participants - Positions Represented

District

District/Zone AFMO (5)

District/Zone FMO (8)

District Fuels Specialist (4)

Zone Fuels specialist (2)

Zone Fire Staff Officer (1)

Engine Captain (2)

Seasonal (1)

Smokejumper (1)

WF Module (2)

Hotshot, Asst Sup (1)

AD (1)

District Ranger (2)

Forest/Park/Refuge

Multi-refuge FMO (4)

Forest /Tribe FMO (6)

Forest Fuels Specialist (5)

Forest Fuels Planner (1)

Forest Fire Staff Officer (1)

Burn Boss (1)

Region/State

Regional/Deputy Regional FMO (3)

State/Regional Fuels (6)

Regional Fire Ecologist (1)

Regional Safety (1)

Regional Asst Dir F&AM (1)

National: TNC (1), FUTA (1), PFTC (1), LLC (1)

<u>Participants – Experience with Reviews</u>

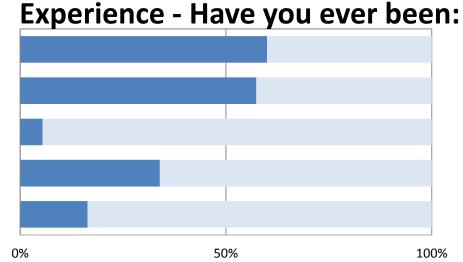
the subject of an escaped Rx review?

a member of a review team?

the line officer accountable for a review?

both subject and team member?

No experience



<u>Data and</u> <u>Analysis Methods</u>

Workshop notes
Flip-chart summaries



Workshop summary Flip chart summary

Audio recordings



Transcribed





a) Application Oriented

- synthesesGTR & chapterspresentations
- tips and techniquesPod-casts
- recommendations

b) Theory Oriented

- peer-review papers
- conference presentations

<u>Analysis</u>

Instrumental: (What) -

- * Synthesize and describe major types of learning
 - when/how/who/why
 - facilitators/barriers
 - recommendations

Systems: (How /Why) -

- * Use theory as lens
 - high performance: resiliency, learning
 - communications: rhetoric, dialogue

<u>Results</u>

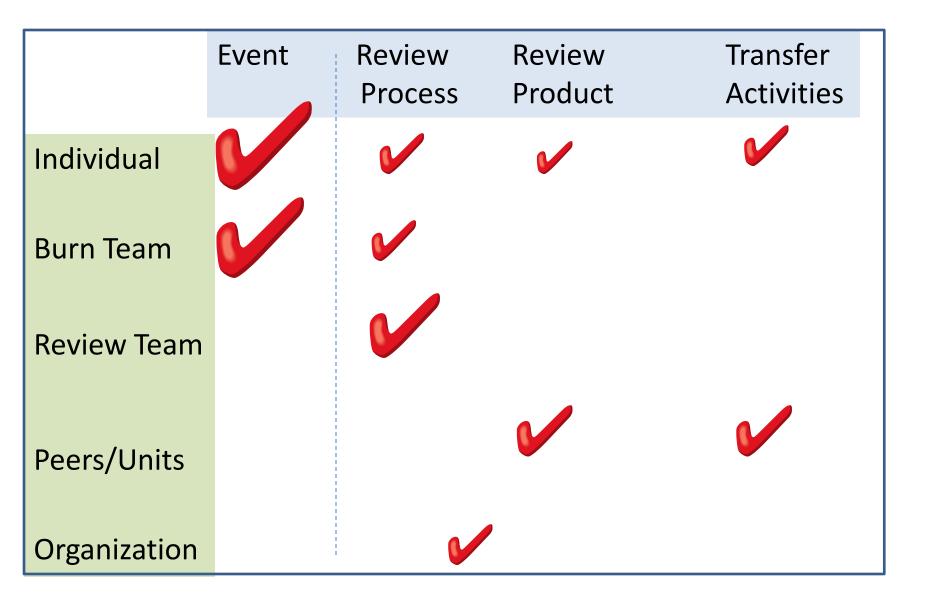
Major themes relate to:

- ➤ Policy and Guidance
- ➤ Conducting a Review
- >Transferring/Institutionalizing Lessons

drawn from points consistently made:

- across workshops
- across levels of the hierarchy
- across agencies

Where is learning occurring?



Illustrative Narrative- overview

"I get a little confused, because we keep talking about learning. ... And I'd ask, who's supposed to be learning what? Because there's all these different levels.

There's the Burn Boss.

There's the Holding Boss.

There's a guy on the nozzle that could very well be learning something from it, and how they're going to learn it is going to depend a lot on where it's presented, how it's presented.

Agency Administrators want to learn something else.

Policymakers might want to learn something else.

So it's kind of like we take this thing, we make a document out of it and put it on the website, and all of a sudden, presto, it's going to meet all of these different learning needs? It doesn't seem like that's possible. It seems like it's missing all of the boats by trying to get all of them at once."

(FWS, Regional AFMO)

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Illustrative Narrative - overview

"the bigger issue was for **the healing process** to start. It takes a mental, physical, **emotional toll** on everybody from the Burn Boss {uhhmmm} to the lighter to the Line Officer to the Fire Staff ...

... And to really get ...it behind you, ...[with] The report not being out, you're not able to get past it **to get closure**" (USFS, Zone Fire Staff Officer)

Audience: Who desires what?

Corrective (policy) Action: "What we're looking for at our level is findings, recommendations that need to be addressed by policy change or something like that. "(*National Fire Ops, BLM*)

Personal improvement: "I was pretty disappointed with the [] report. I was looking at the review team as kind of the experts ... to come in and tell me, well, these are the tricks of the trade or whatever .. the [] report was written to teach other people what happened on the [unit]. It wasn't written to teach the [us] how to be better, {ah, hmm." (USFS, District Fuels Specialist)

Info to train/coach: "I'm looking for ...something that I can maybe turn into a sand table exercise. ...from the actual players ... some kind of a bullet list that you can go through and sort of latch onto it." (NPS, Fuels Management Specialist)

"the story is in the experience as well as all the decision-making leading up to lighting the match and following through with it...I want to hear the stories. " (*Tribal FMO*)

Audience: Who desires what?

Due Diligence: "Number one through seven in the policy guide, {laughter} seriously. That's what I need when I'm on the receiving end of one of those until such time as that policy changes at the minimum." (USFS **Regional** F&AM)

Trends: "Are there themes coming out that make our program very vulnerable in future planning and implementation and application?"

(USFS, Regional Fuels)

Illustrative Narrative: How to improve learning?

REVIEW

Clarify intent: "Do we have the objective of reviewing policy and checking the seven steps **or** do we have an objective to facilitate a learning culture within our organizations?" (USFS, AFMO)

Clear, Collaborative, Comprehensive and Transparent Direction: "Clarify the Delegation of Authority – ensure it covers who the audience is, what the purpose is, how it is to be conducted, what the products are. Work to include/align the various desires, such as from RO, Forest Sup, District Ranger. (*Flip-chart bullet*)

REVIEW TEAM COMPOSITION

Staff review team appropriately: "I keep going back to team makeup and how a team runs a review ...go in with the attitude of, hey, we want to be able to figure out what happened, learn from it, (*BIA, Regional Fuels*)

Illustrative Narrative: How to improve learning?

PAY ATTENTION TO TRANSFER

Develop a personal connection to event: "If I can create a personal connection to it, it has a lot more relevance, and I'm likely to learn those lessons, rather than if it's another report or even a video interview or something that I can't make a connection to." (USFS, Forest FMO)

Develop Transfer Mechanisms: "there really isn't that defined mechanism for getting the lessons learned on escaped prescribed fires out or even the review reports. "(*USFS*, *Forest FMO*)

FOLLOW-UP

"Make sure those corrective actions happen, and let all this political stuff, drop it out of the equation and try and get people .. engaged with us." (*BIA, Regional Fuels*)

Summary of themes

Policy and Guidance

- General confusion about types of reviews; purpose and intent; flexibility; outcome
- General agreement that pursuing the seven
 - May be useful for WO, but not meeting field desires
 - But, may be due to perceived intent as opposed to specific elements.
- General desire for flexibility, scalability to review all types of outcomes
- General desire for learning oriented reviews focused on unit
- Desire ability to trend

Conducting a Review

- Several critical pieces of a successful review:
 - Line officer intent and direction to Review Team clear, transparent to unit
 - Approach matters questions v. listening -- Review team training/skills
 - Meet local culture where it is in terms of their learning orientation

Transferring/Institutionalizing Lessons

Desire for more effective transfer and incorporating lessons into practice

How to make sense of this?

How do we think about (what's our theory) of performance – safety, reliability....?

Respond to/Seek to Improve Outcomes

Think about Action & Learning

Build Resilience to Stress

Improving Outcomes

Compliance

Risk

Learning

Rules-based

Goal-based

Improvement-based

Outcomes

'errors' result in blame

in more controls

Managers

enforce rules

are opportunities

Use techniques: MBO

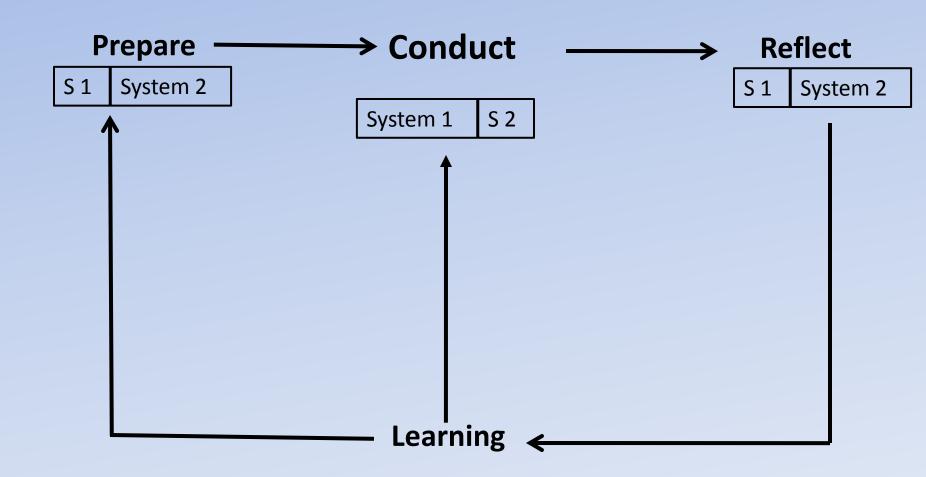
Conflict is

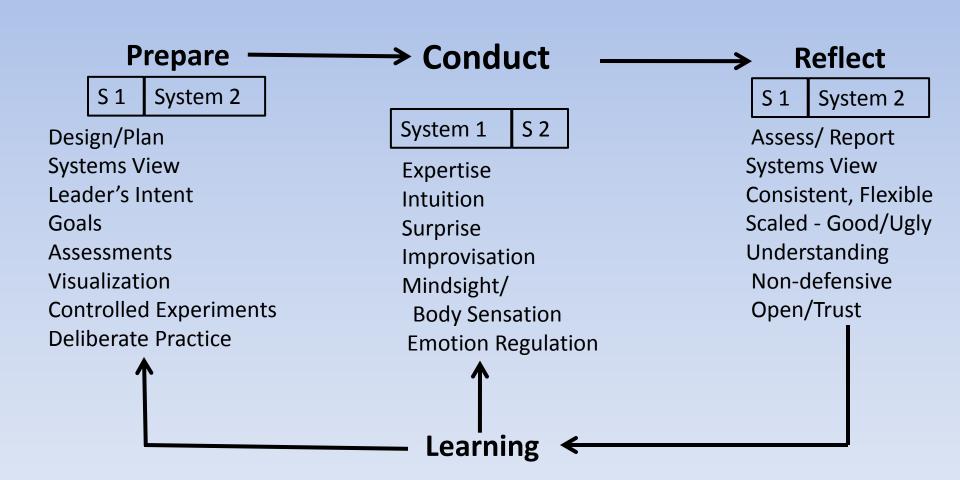
unresolved, competitive

discouraged

Understand, resolve to mutual benefit

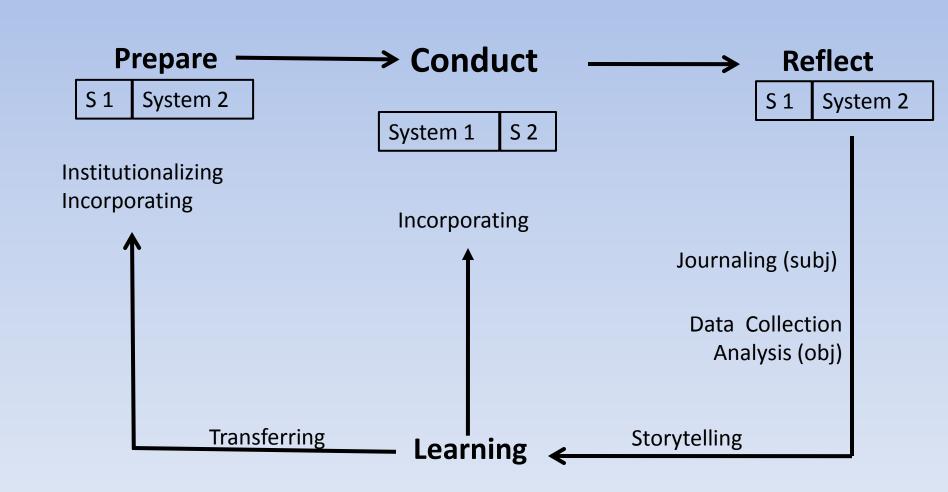
coach, support collaboration





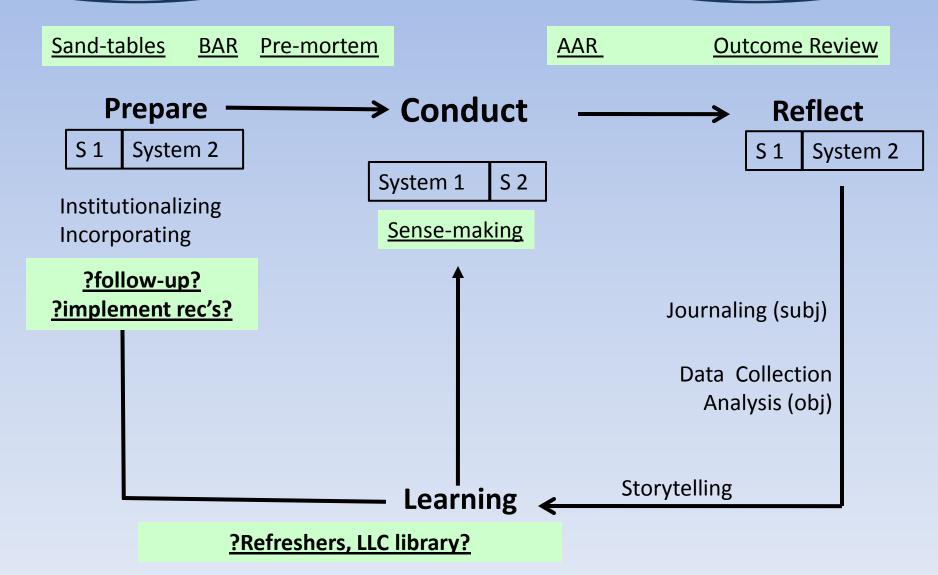
Confidence – Self/Other

Compassion - Self/Other



Confidence – Self/Other

Compassion - Self/Other



Build Resiliency to Stress



Peer-Support / Peer-Coaching



Dys-function

Elite-function

PTSD
Depression
Anxiety

Normal range of function

Flow

<u>Summary and Implications</u>

- Data supports, adds detail to our models of learning and performance.
- Collectively, suggest several sorts of activities to pursue:
 - Vector towards learning on the Compliance – Risk – Learning Spectrum
 - Enhance learning by closing the Learning Loop
 - Emphasize coaching to build resilience to stress

